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AN UNDESCRIBED EASTERN COTTON RAT

BY MARSHALL C. GARDNER

During the course of a revision of the North American cotton rats (Genus *Sigmodon*) the author discovered another hitherto unrecognized subspecies. It is described as follows:

Sigmodon hispidus komareki,¹ subsp. nov.

Type specimen.—Adult 3, skin and skull, No. 207210, U. S. National Museum (Biological Surveys Collection); collected March, 9, 1915, by L. J. Goldman; original number, 2128.

Type locality.-Woodville, altitude 616 feet, Jackson County, Alabama.

Geographic range.—Not completely known but includes most of the area above the hundred foot altitude line in Alabama, Georgia, North and South Carolina. Specimens have also been examined from one locality in southeastern Tennessee. The most typical specimens examined occurred at the higher altitudes. Carolinian and Austroriparian life zones.

Diagnostic characters.—At once distinguishable from Sigmodon hispidus hispidus by the buffy upper parts which are also less mixed with black hairs than typical hispidus. Under parts fairly uniformly light colored varying from white to cream in contrast to hispidus which varies from white to brown. The feet average considerably paler than in dispidus. Cranial characters similar to dispidus.

Color.²—Type: Upper parts honey sweet (XI I-6) mixed with black, becoming richer posteriorly and paler on the flanks; under parts a shade of cream but color not named (IX C-1); tail bicolor, rose ebony (VIII E-6) above, paler beneath.

Skull.-Similar to that of hispidus.

Measurements.—Type: Total length, 266; tail vertebrae, 99; hind foot, 31; condyloincisive length, 34.7; length of anterior palatine foramina, 8.0; palatal bridge, 7.7; nasal length, 13.9; zygomatic breadth, 20.0; least interorbital breadth, 5.5; cranial breadth, 14.1; maxillary tooth row, 6.4.

¹Named for Edwin V. Komarek of Thomasville, Georgia, in recognition of his cooperation with the Section of Biological Surveys of the U. S. Fish and Wildlife Service.

²The color names and symbols are those used in A Dictionary of Color, by A. Maerz and M. Paul; McGraw-Hill Book Company, Inc., New York, 1930.

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		Standard	Observed	Variation
Character	Mean	Deviation	Range	Coefficient
Total length	265	13.9	248-292	5.27
Tail length	104	9.3	89-124	8.90
Body length	161	8.1	146-181	5.05
Foot length	32	0.4	29-34	1.35
Condyloincisive length	33.5	1.2	32.0-35 <mark>.</mark> 9	3.56
Anterior palatine				
foramina length	8.1	0.5	7.2-9.1	5.71
Palatal length	6.7	0.5	6.1-7.9	5.08
Nasal length	13.8	0.7	12.3 - 15.3	5.37
Zygomatic breadth	19.9	0.7	18.6 - 21.4	3.71
Least interorbital breadth	5.1	0.3	4.7-5.8	5.00
Cranial breadth	14.0	0.5	13.2-15	3.98
Maxillary tooth row	6.2	0.25	5.7 - 6.6	3.71

STATISTICS ON 31 ADULT MALE SPECIMENS³

Remarks.—Intergradation with S. h. hispidus occurs on both sides of the hundred foot line. Specimens from Dean, Alabama, and Elkin, North Carolina are included on geographic grounds but resemble hispidus.

Specimens examined.—Total 160, all in the National Museum or Biological Surveys collection, from the following localities.

- ALABAMA: Autauga County: Autaugaville, 1. Bibb County: Sand Mountain, 1. Clay County: Dean, 2; Erin, 2. Conecul County: Castleberry, 1. Cullman County: Ardell, 2. Hale County: Gallion, 4; Greensboro, 6. Henry County: Abbeville, 2. Houston County: Ashford, 5. Jackson County: Woodville, 8. Lee County: Auburn, 3. Madison County: Huntsville, 1. Marshall County: Cane Creek, 1. Montgomery County: Barachias, 2. Eussell County: Seale, 7. Wilcox County: Catherine, 1.
- GEORGIA: Berrien County: Nashville, 1. Cherokee County: Canton, 2. Cobb County: Marietta, 5; no locality 1. De Kalb County: Camp Gordon, 3. Early County: Blakely, 2. Fulton County: Fort McPherson, 5. Murray County: Chatsworth, 2. Muscogee County: East Point, 1. Richmond County: Augusta, 2. Spalding County: Pomona, 2. Stephens County: Avalon, 9. Taylor County: Butler, 5. Towns County: Young Harris, 3.
- NORTH CAROLINA: Anson County: Wadesboro, 2. Cherokee County: Murphy, 5. Richmond County: Rockingham, 9. Surry County: Elkin, 1. Wake County: Raleigh, 33.
- SOUTH CAROLINA: Darlington County: Society Hill, 6. Laurens County: Clinton, 1. McCormick County: McCormick, 5. Newberry County: Whitmire, 2. Oconee County: Walhalla, 2. Pickens County: Easley, 1.

TENNESSEE: Hamilton County: Rathburn, 1.

U. S. Fish and Wildlife Service, Washington, D. C.

^sFrom localities throughout the range.